

Claims

I Claim:

1. A removable and replaceable anti-fouling laminate to provide protection to a water submersed object, said laminate comprising:
 - a.) a first, non-porous transfer adhesive for securing said laminate to said object;
 - 5 b.) a second, non-porous film to strengthen said laminate;
 - c.) a third layer having a blended mixture of a synthetic rubber and cuprous oxide; and,
 - d.) a manually removable fourth layer of a non-porous plastic film, removable to expose said third layer for providing anti-fouling
 - 10 protection to said object.

2. The removable and replaceable anti-fouling laminate according to claim 1, wherein said cuprous oxide is present in said mixture in an amount between about 15% to 70%, by weight.

3. The removable and replaceable anti-fouling laminate according to claim 2, where said cuprous oxide is present in an amount between about 20% to 40%.

4. The removable and replaceable anti-fouling laminate according to claim 3, wherein said mixture further includes a biocide.

5. The removable and replaceable anti-fouling laminate according to claim 1, wherein said laminate has a thickness of from 1 to 4 mils.

6. The removable and replaceable anti-fouling laminate according to claim 1, wherein said synthetic rubber is a butyl rubber compound.

7. The removable and replaceable anti-fouling laminate according to claim 1, wherein said object is a boat hull.

8. The removable and replaceable anti-fouling laminate according to claim 1, wherein said transfer adhesive is an acrylic adhesive.

9. The removable and replaceable anti-fouling laminate according to claim 1, wherein to produce said laminate said blended mixture of synthetic rubber and cuprous oxide, said mixture is applied to said fourth layer by a process selected from the group consisting of spraying and rolling, in a controlled manufacturing environment.

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10. In combination with the hull of a vessel, where said hull is to be submersed in water and anti-fouling protection is required for the effective and safe operation of said vessel, a laminate to be applied to said hull, said laminate comprising:

- 5 a.) a first, non-porous transfer adhesive for contacting and securing said laminate to said hull;
- b.) a second, non-porous film to strengthen said laminate;
- c.) a third layer having a blended mixture of a synthetic rubber 1 and cuprous oxide; and,
- 10 d.) a removable fourth layer of a non-porous plastic film, removable to expose said third layer for providing anti-fouling protection to said hull.

11. The combination according to claim 10, wherein said cuprous oxide is present in said mixture in an amount between about 15% to 70%, by weight.

12. The combination according to claim 11, where said cuprous oxide is present in an amount between about 20% to 40%.

13. The combination according to claim 12, wherein said mixture further includes a biocide.

14. The combination according to claim 10, wherein said laminate has a thickness of from 1 to 4 mils.

15. The combination according to claim 10, wherein said synthetic rubber is a butyl rubber.

16. The combination according to claim 10, wherein said transfer adhesive is an acrylic adhesive.

17. The combination according to claim 10, wherein to produce said laminate said blended mixture of synthetic rubber and cuprous oxide, said mixture is applied to said fourth layer by a process selected from the group consisting of spraying and rolling in a controlled manufacturing environment.